PARADYNE®

Hotwire® ATM Line Cards
Models 8335, 8355, 8365, 8375, and 8385
Installation Instructions

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Hotwire ATM Line Cards

The Hotwire® 8335, 8355, 8365, 8375, and 8385 Asynchronous Transfer Mode (ATM) Line Cards are circuit boards mounted in an 8620 or 8820 Broadband Loop Carrier (BLC), used to transport ATM cells at high speeds over a single twisted-pair connection.

- Model 8335 supports Symmetric Digital Subscriber Line (SDSL).
- Model 8355 supports ReachDSL® 2.2 concurrent with POTS.
- Model 8365 supports Asymmetric Digital Subscriber Line (ADSL) concurrent with POTS.
- Model 8375 supports ReachDSL+, a technology that combines ADSL features and performance with the unique capabilities of Paradyne's ReachDSL.
- Model 8385 supports Single-pair High-speed Digital Subscriber Line (SHDSL).

Product Documentation Online

Complete documentation for this product is available at **www.paradyne.com**. Select *Support* → *Technical Manuals.*

Document Number	Document Title
Primary document for this product:	
8335-A2-GB20	*Hotwire ATM Line Cards, Models 8335, 8355, 8365, 8375, and 8385, User's Guide*
Reference documents:	
6050-A2-GZ40	*Hotwire Central Office Universal POTS Splitter, Models 6050 and 7020, Installation Instructions*

Document Number	Document Title
6390-A2-GN10	*Hotwire ReachDSL Modem, Model 6390 with Inline Phone Filter, Installation Instructions*
8000-A2-GB22	*Hotwire Management Communications Controller (MCC) Card, IP Conservative, User's Guide*
8021-A2-GB20	*Hotwire Shelf Concentration Module (SCM) Card User's Guide*
8021-A2-GZ40	*Hotwire Shelf Concentration Module (SCM) Card Installation Instructions*
8620-A2-GN20	*8620 Broadband Loop Carrier Installation Guide*
8820-A2-GN20	*8820 Broadband Loop Carrier Installation Guide*

To order a paper copy of a Paradyne document, or to speak with a sales representative, please call 1-727-530-2000.

Installation Overview

Installation and configuration of the ATM Line Card consists of:

- Installing the card in the BLC.
- Connecting to a Main Distribution Frame (MDF).
- Connecting to the DS3, OC3, E3, or T1/E1 uplink.
- Providing initial unit identity information or changing existing identity information.
- Configuring your unit using the Configuration Edit menus.

Be sure to register your warranty at **www.paradyne.com/warranty**.

Planning the Installation

Review the following list to help plan for the installation.

- ❑ Obtain the applicable cables; refer to *Cables You Need* on page 5.
- ❑ Make sure the chassis is installed and power is supplied to it.
- ❑ After the ATM Line Card is installed, there are configuration procedures that must be performed before you can begin to use it. Refer to the *Hotwire ATM Line Cards, Models 8335, 8355, 8365, 8375, and 8385, User's Guide* for detailed configuration procedures.

Cables You Need

The following standard cables are used with this product:

- **For the DSL network connection:** Plug-ended Telco 50-pin cable for connection from the chassis rear connector to the MDF or other demarcation point. Refer to the 8620 or 8820 BLC Installation Guide and, if applicable, the documentation that came with your POTS splitter for more information.
- **For the ATM Uplink:** Refer to the *Hotwire Shelf Concentration Module (SCM) Card User's Guide* for cable specification information.

For more information refer to *Connector Pin Assignments* in the *Hotwire ATM Line Cards, Models 8335, 8355, 8365, 8375, and 8385, User's Guide*.

Installing DSL Cards

⚠ HANDLING PRECAUTIONS FOR STATIC-SENSITIVE DEVICES

This product is designed to protect sensitive components from damage due to electrostatic discharge (ESD) during normal operation. When performing installation procedures, however, take proper static control precautions to prevent damage to equipment. If you are not sure of the proper static control precautions, contact your nearest sales or service representative.

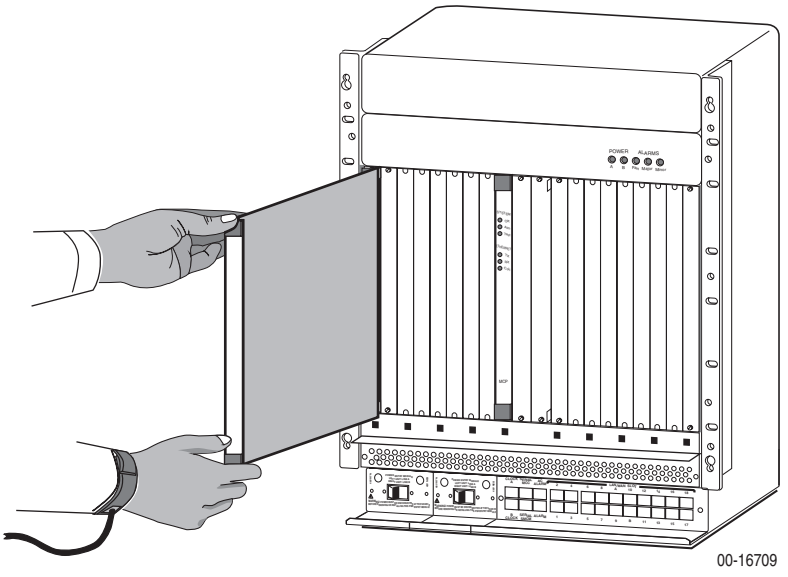
An ATM Line Card can be installed in, removed from, and replaced in an 8620 or 8820 BLC without disrupting service to the other cards in the chassis.

▶ Procedure

To install the ATM Line Card:

1. Determine in which slot the unit will be installed. Verify that cards in adjacent slots have been fastened.
2. Remove the filler plate from the installation slot and store for possible later use.

3. Holding the ATM Line Card vertically with component side facing right, insert it into the top and bottom card guides.



CAUTION:

Do not force the unit into the slot. This could damage the backplane connectors. If the card does not seat properly, remove the card and reinstall it. If it still does not seat properly, call your service representative.

4. Slide the unit into the slot until the power and network connectors seat firmly in the mating connectors on the backplane.

   The unit performs a power-on self-test. All of the LEDs turn ON and OFF briefly. When the self-test is completed successfully, the SYSTEM OK LED begins to pulse.

   If the LED is not pulsing, notify your service representative.

5. Secure the unit by fastening the screws at each end of the faceplate.

Connecting to the ATM Network

The connection to the ATM network is made through the Shelf Concentration Module (SCM), another card in the BLC. Depending on the model, the SCM supports a DS3, OC3, E3, or T1/E1 connection. See the *Hotwire Shelf Concentration Module (SCM) Card User's Guide* for more information.

Connecting to an MDF or ADSL POTS Splitter

You can connect the ATM Line Card to an MDF or other demarcation point. Do not connect the Model 8335 or 8385 to a POTS splitter. Refer to the 8620 or 8820 BLC Installation Guide for more information.

Refer to *Connector Pin Assignments* in the *Hotwire ATM Line Cards, Models 8335, 8355, 8365, 8375, and 8385, User's Guide* for pinouts of the BLC ports.

▶ Procedure

To connect the chassis containing the unit to an MDF:

1. Determine the slot number the ATM Line Card was installed in.
2. Plug the Telco 50-pin cable into the appropriate numbered port on the back of the BLC.
3. If a ferrite and cable tie are included in the package with your ATM line card, attach the ferrite to the Telco cable, then secure it with the cable tie.
4. Dress the cable to the side the connector is nearest.
5. *For the Model 8335, 8355, 8365, 8375, or 8385 with no POTS service:*

   — Attach the other end of the cable to the appropriate MDF or demarcation point.

   For the Model 8355, 8365, or 8375 using an ADSL POTS splitter:

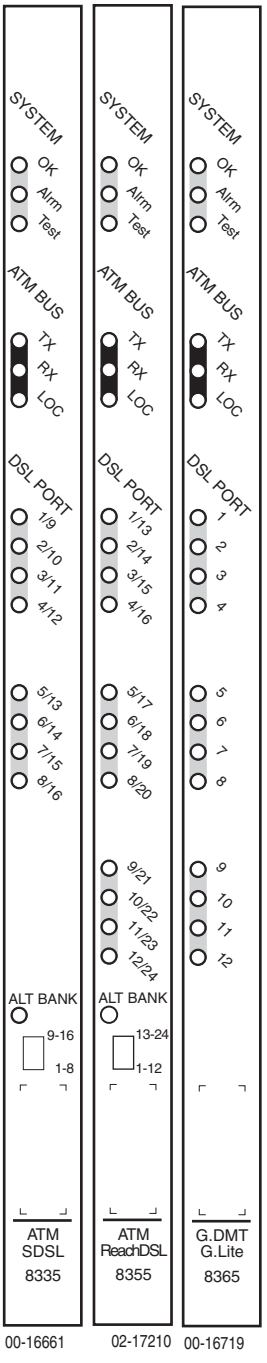
   — Attach the other end of the cable to the XDSL interface of the Corning Cable Systems (formerly Siecor) ADSL POTS Splitter Rack-Mount Shelf or the Hotwire 6050 Central Office Universal POTS Splitter. Refer to the document that came with the POTS splitter for the additional connections.

NOTE:

If you are connecting the Telco 25-pair, 50-pin cable to an MDF, a converter may be necessary for terminating the other end of the cable on a punchdown block before cross-connecting to an MDF.

Front Panel LEDs

The following table describes the meaning and states of the LEDs on the front panel.



Type	LED	LED is . . . *	Indicating . . .
SYSTEM	OK	Green, On	Card failure. System processing functions have stopped.
		Off	No power to card.
		Green, Pulsing	Card functioning normally.
		Green, Fast Blinking	Firmware download needed.
	Alrm	Amber, On	Alarm is present on the card. ATM interface is not being detected.
		Off	Normal operation, no alarms.
	Test	Amber, On	Test in progress.
		Off	Normal operation, no tests.
		Amber, Fast Blinking	Self-test is in progress.
ATM BUS	TX	Off	Inactive.
		Green, Fast Blinking	Cells are being transmitted.
	RX	Off	Inactive, link down.
		Green, Fast Blinking	Cells are being received.
	LOC	Amber, On	Loss Of Clock. ATM bus clock signal is not present.
		Off	Normal operation.
DSL PORT		Green, On	Good signal, unit is trained.
8335	1/9–8/16	Off	Port is disabled.
8365	1–12	Green, Slow Blinking	Port is in test, or is down.
24-Port Models	1/13–12/24	Green, Fast Blinking	Port is training.
ALT BANK		Off	The ports not currently displayed by the port status LEDs are functioning normally or are disabled.
8335	9–16 1–8		
24-Port Models	13–24 1–12	Amber, Fast Blinking	One of the ports not currently being displayed by the port status LEDs is down, in test, or in training mode.

* Pulsing: LED turns off momentarily once per second.
Slow Blinking: LED turns on momentarily once per second.
Fast Blinking: LED turns off and on in equal duration 4 times per second.

The 8375 and 8385 front panels, not displayed, have the same LEDs and designations as the 8355.

Logging In to the MCC Card

You can log in to the management card using either a local VT100- compatible terminal or a remote Telnet connection.

After you enter your user ID and password, the system displays the Main Menu. See the *Hotwire Management Communications Controller (MCC) Card, IP Conservative, User's Guide* for information about selecting the unit from the card selection screen.

Entering Card Information

After accessing your line card for the first time, use the Card Information screen to configure basic information about the card. To access the Card Information screen, follow this menu selection sequence:

Configuration → *Card* → *Card Info* (**A-A-A**)

Configuring the DSL Ports

You can set the rate of the DSL ports from the DSL Port Configuration screen. To access the DSL Port Configuration screen, follow this menu selection sequence:

Configuration → *Physical Ports* → *DSL Ports* (**A-B-B**)

Configuring the ATM Parameters

You can configure ATM parameters from the ATM Parameters screen. To access the ATM Parameters screen, follow this menu selection sequence:

Configuration → *ATM Switch* → *ATM Parameters* (**A-E-A**)

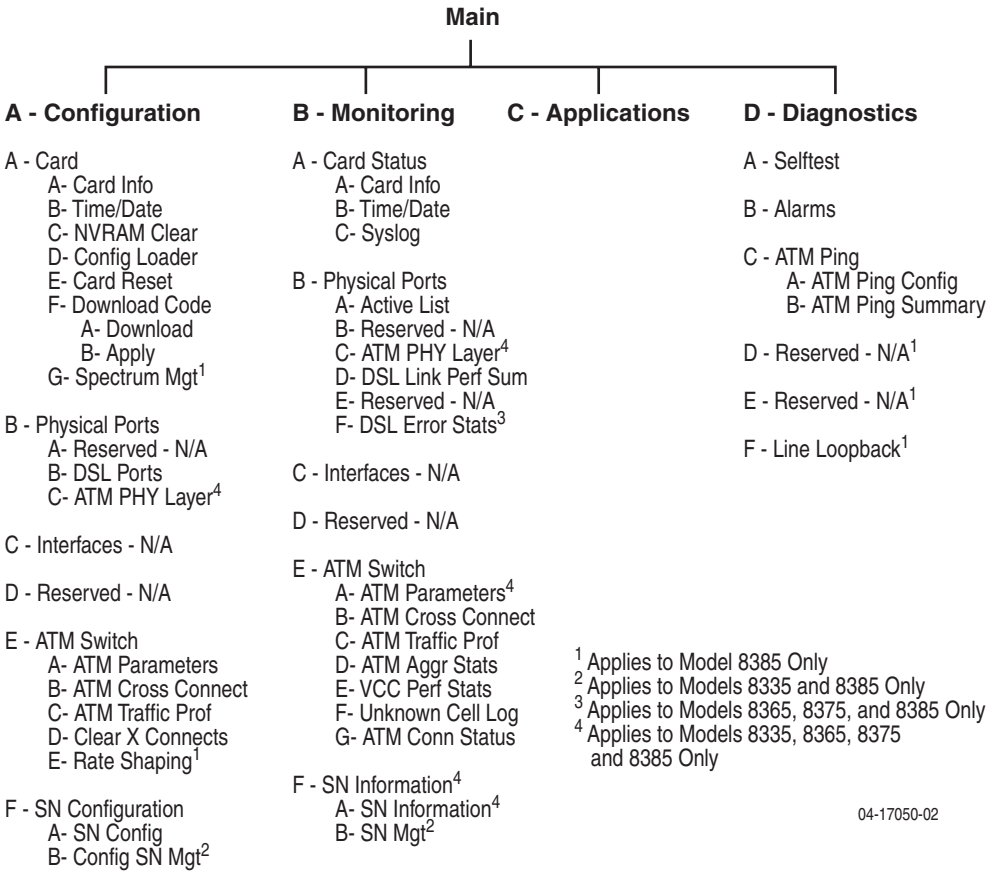
Configuring ATM Cross Connection

You can configure VC connections from the line card to the endpoint with the ATM Cross Connect screen. To access the ATM Cross Connect screen, follow this menu selection sequence:

Configuration → *ATM Switch* → *ATM Cross Connect* (**A-E-B**)

Asynchronous Terminal Interface Menu

The following diagram shows the menu paths to the functions available through the asynchronous terminal interface.



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- **Internet:** Visit the Paradyne World Wide Web site at **www.paradyne.com**. (Be sure to register your warranty at **www.paradyne.com/warranty**.)
- **Telephone:** Call our automated system to receive current information by fax or to speak with a company representative.
  - — Within the U.S.A., call 1-800-870-2221
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